Product Datasheet: MEF Feeder Cells

Product Description

Mouse Embryonic Fibroblast (MEF) Feeder Cells are widely used to support the growth and maintenance of both mouse and human embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs). MEFs provide essential extracellular matrix proteins, cytokines, and growth factors that help sustain pluripotency and prevent spontaneous differentiation.

We offer several types of MEF feeders to suit diverse experimental needs. CF1 MEF feeders are the standard and the most commonly feeders for routine ESC/iPSC culture. Neomycin-resistant (NeoR) MEFs allow efficient co-culture when G418 selection is required, enabling stable transgene expression. DR4 MEFs, resistant to neomycin, hygromycin, puromycin, and 6-thioguanine, support more stringent selection strategies.

All feeder cells are rigorously tested, mitotically inactivated, and optimized to ensure reliable, reproducible stem cell culture.

Stability and Storage

Upon receipt, immediately transfer the cells from dry ice to liquid nitrogen storage, and maintain them in liquid nitrogen until ready for experimental use.

Shipping

Cryopreserved cells are shipped on dry ice.

Product Use

The products are for research use only. They are not approved for human or animal use, or for application in in vitro diagnostic procedures.

Contact Us

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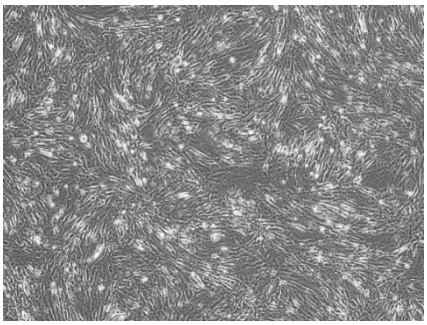
Quality Control:

Catalog Number	**ILF (See CoA)**
Organism	*musculus*
Donor	See CoA for the detailed information
Inactivation Method	Mitomycin C treated or X-ray irradiated
Product Format	Cryopreserved
Culture Properties	Adherent
Total Cell Number	2 or 4 x 10^6 cells/vial
Viability	>90%
Human Pathogen	Negative
Bacterial, Fungi, Mycoplasma	Negative

Representative Data:



MEF Feeder Cell Thawing and Plating Protocol:

1. Thaw the cells rapidly in a 37 °C water bath.
2. Transfer the thawed cells into a 50 mL conical tube.
3. Slowly add 2 mL of MEF feeder culture medium (DMEM + 10% FBS supplemented with antibiotics).
4. Centrifuge at 200 × g for 2 minutes at room temperature.
5. Carefully aspirate the supernatant.
6. Resuspend the cell pellet in an appropriate volume of MEF feeder culture medium.
7. Seed the cells onto 0.1% gelatin-coated plates (e.g., ~2 × 10^6 cells for 3 wells or ~4 × 10^6 cells for 6 wells of a 6-well plate).
8. Gently distribute the cells evenly across the wells.
9. Incubate overnight at 37 °C in a CO_2 incubator.
10. Cells are ready for use 1–3 days post-thaw.

Related Products:

These feeder cells are specifically produced to support iPSC derivation and expansion (Catalog Number: see CoA).